

## **REGULATION 1.06     Stationary Source Self Monitoring, Emissions Inventory Development, and Reporting**

### **Air Pollution Control District of Jefferson County Jefferson County, Kentucky**

**Relates To:** KRS Chapter 77 Air Pollution Control

**Pursuant To:** KRS Chapter 77 Air Pollution Control

**Necessity And Function:** KRS 77.180 authorizes the Air Pollution Control Board to adopt and enforce all orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation establishes the conditions for stationary source self monitoring, emissions inventory development, and reporting.

#### **SECTION 1     In-Stack Self Monitoring and Reporting**

The District may require the owner or operator of a process or process equipment to install, operate, and maintain stack gas measuring, emission monitoring, and parametric monitoring equipment. For cause, including, but not limited to, the incineration of hazardous or infectious waste or repeated or on-going violations, the District may also require data storage and transmission equipment and lines. The owner or operator of a process or process equipment that is required to install, operate, and maintain this measuring or monitoring equipment shall maintain records of monitoring data and make periodic reports of these data in a form, unit of measure, and at the time intervals required by the District. Requirements for specific affected facilities are contained in the applicable regulations. The District, for cause, may require additional or more stringent requirements for an individual affected facility than those required in the regulations otherwise applicable to that affected facility.

#### **SECTION 2     Ambient Air Monitoring**

The District may require the owner or operator of a process or process equipment to install, operate, and maintain ambient air monitoring equipment in accordance with methods prescribed by the District, and in the number and frequency as prescribed by the District, and to make periodic ambient air monitoring reports at intervals as prescribed by the District.

#### **SECTION 3     Provisions for Section 4 and Section 5 Emissions Data**

The following provisions apply to the emissions data requirements in Section 4 and Section 5:

- 3.1 When reporting actual emissions, the owner or operator shall include any increased emissions that result from startups, shutdowns, and upset conditions along with the routine emissions of a process or process equipment.
- 3.2 For purposes of complying with the provisions of Section 4 and Section 5, all emissions shall be calculated using one of the following as applicable:
  - 3.2.1 An emission factor from the EPA's Emissions Factors and Policy Applications Center (EFPAC), which includes AP-42,
  - 3.2.2 An emission factor or method from the EPA's Emission Inventory Improvement Program (EIIP),
  - 3.2.3 A method defined in the EPA-approved District regulations,
  - 3.2.4 An emission estimation equation, factor, or method included in an EPA regulation, to the extent that the use of the equation, factor, or method is appropriate for determining actual emissions,

- 3.2.5 Stack test or CEMS data,
- 3.2.6 For a material that is purchased, information from the Material Safety Data Sheet (MSDS), or
- 3.2.7 A method proposed by the owner or operator and approved in writing by the District.
- 3.3 If a District-approved method is used pursuant to section 3.2.7, then the District shall provide all documentation on the emissions calculation method to the EPA, upon request.
- 3.4 The data required by Section 4 and Section 5 shall include the process- or process equipment-specific calculations used to determine emissions. The raw data used to calculate the emissions shall be retained by the owner or operator of the stationary source for a period of not less than 5 years and shall be made available to the District upon request. Representative portions of the raw data used to calculate the emissions shall be supplied to the District in support of the emissions statement in a format provided by the District.
- 3.5 Notwithstanding the provisions of sections 4.2 to 4.4, if a stationary source is subject to Regulation 2.16 *Title V Operating Permits*, then the owner or operator of the stationary source shall comply with the provisions of section 4.1 and not the otherwise applicable provisions of sections 4.2 to 4.4, except for the gasoline throughput information specified in section 4.2.
- 3.6 For the purpose of reporting emissions pursuant to Section 4, the owner or operator may exclude emissions that are defined in Regulation 5.01 *General Provisions* sections 1.6.1 and 1.6.2 as de minimis.
- 3.7 For the purpose of reporting emissions pursuant to Section 5, the owner or operator may exclude emissions that are defined in Regulation 5.01 section 1.6 as de minimis. This exclusion also applies to the related stack and fugitive emission release parameters, pursuant to section 5.3, that are applicable only to de minimis emissions.
- 3.8 If the owner or operator of a stationary source is required to submit an emissions statement pursuant to section 4.1 but no hazardous air pollutant or ammonia is emitted during the applicable year, then the owner or operator shall submit a negative declaration in place of the emissions statement for those air contaminants.
- 3.9 If the owner or operator of a stationary source is required to submit an enhanced emissions statement pursuant to section 5.2 but no applicable toxic air contaminant is emitted during the applicable year, then the owner or operator shall submit a negative declaration in place of the enhanced emissions statement.
- 3.10 For the purpose of reporting emissions pursuant to Section 5, the owner or operator may exclude emissions from motor vehicle fueling and refueling processes and process equipment for gasoline and other liquid fuels.
- 3.11 For the purpose of reporting emissions pursuant to Section 5, the owner or operator may exclude emissions of a Category 2 TAC if the owner or operator of a Group 1 stationary source did not report the emission of that TAC to the EPA for the 2006 Toxics Release Inventory Program or if the owner or operator of a Group 2 stationary source did not report the emission of that TAC to the EPA for the 2007 Toxics Release Inventory Program.
- 3.12 Notwithstanding the provisions of Sections 4 and 5, the District may, at any time, require the owner or operator of any stationary source to submit information, analyses, plans, or specifications regarding processes, process equipment, and the nature, extent, quantity, or concentration of the actual or potential emissions related to any process or process equipment at the stationary source on forms supplied by the District. The forms shall be returned to the District by the deadline date stated in the letter of transmittal with the forms or stated in the forms themselves.

#### **SECTION 4 Emissions Data for Criteria Pollutants, HAPs, and Ammonia**

- 4.1 The owner or operator of a stationary source described in sections 4.1.1, 4.1.2, or 4.1.3 shall submit an emissions statement of actual emissions of particulate matter, sulfur dioxide, carbon monoxide, nitrogen dioxide, ozone precursor emissions of volatile organic compounds and oxides of nitrogen, lead, ammonia, and all hazardous air pollutants (HAPs) listed in Regulation 5.14 *Hazardous Air Pollutants and Source Categories* to the District as follows:
- 4.1.1 Each year, on or before April 15<sup>th</sup> of the year, for the previous calendar year of operation, for a stationary source subject to Regulation 2.16 *Title V Operating Permits* (Group 1 stationary source),
- 4.1.2 Each year, on or before April 15<sup>th</sup> of the year, for the previous calendar year of operation, for either of the following (Group 2 stationary source):
- 4.1.2.1 A stationary source that has applied for an operating permit pursuant to Regulation 2.17 *Federally Enforceable District Origin Operating Permits*, or
- 4.1.2.2 A stationary source that is subject to the permit requirements of Regulation 2.03 section 1.1 or 1.2 but is not included in section 4.1.1, 4.1.2.1, 4.2, 4.3, or 4.4 of this regulation, if the actual emissions from the stationary source are 25 or more tons per year individually of sulfur dioxide, particulate matter, volatile organic compounds, or oxides of nitrogen, and
- 4.1.3 Beginning August 15, 2006, and every third year thereafter, on or before August 15<sup>th</sup> of the year, for the previous calendar year of operation, for a stationary source that is subject to the permit requirements of Regulation 2.03 section 1.1 or 1.2 but is not included in section 4.1.1, 4.1.2, 4.2, 4.3, or 4.4 of this regulation, unless the District has notified the owner or operator of the stationary source in writing that an emissions statement is required every year.
- 4.2 Beginning April 15, 2006, the owner or operator of a gasoline dispensing facility subject to Regulation 6.40 *Standards of Performance for Gasoline Transfer to Motor Vehicles (Stage II Vapor Recovery and Control)*, which does not include the initial transfer of gasoline into the fuel tanks of new motor vehicles at an automobile or truck assembly plant, shall submit to the District, on or before April 15<sup>th</sup> of each year, the gasoline throughput, by grade, by month, for the previous calendar year of operation. In addition, beginning April 15, 2006, and every third year thereafter, the owner or operator of a gasoline dispensing facility, whose only permitted process or process equipment is the gasoline dispensing facility, shall submit to the District, on or before April 15<sup>th</sup> of the year, the amount, by type, in gallons per year, of cold cleaner material used for the previous calendar year.
- 4.3 Beginning July 15, 2006, and every third year thereafter, the owner or operator of a stationary source that is subject to Regulation 6.44 *Standards of Performance For Existing Commercial Motor Vehicle And Mobile Equipment Refinishing Operations* or Regulation 7.79 *Standards of Performance For New Commercial Motor Vehicle And Mobile Equipment Refinishing Operations* and is not a stationary source described in either section 4.1.1 or 4.1.2 shall submit to the District, on or before July 15<sup>th</sup> of the year, the amount, in gallons, of coating and solvent, by type, used each month for the previous calendar year.
- 4.4 Beginning April 15, 2006, and every third year thereafter, the owner or operator of a stationary source that is subject to Regulation 5.02 *Adoption of National Emission Standards for Hazardous Air Pollutants* section 3.12 *National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities* and is not a stationary source described in either section 4.1.1 or 4.1.2 shall submit to the District, on or before April 15<sup>th</sup> of the year, the

perchloroethylene usage in gallons, by month, for the previous calendar year.

## **SECTION 5 Enhanced Emissions Data for Toxic Air Contaminants**

5.1 As used in Section 5:

5.1.1 “Category 1 TAC” means a toxic air contaminant (TAC) listed in Regulation 5.23 *Categories of Toxic Air Contaminants* Section 1, and

5.1.2 “Category 2 TAC” means a toxic air contaminant listed in Regulation 5.23 Section 2.

5.2 The owner or operator of a stationary source shall submit an enhanced emissions statement for listed toxic air contaminants (TACs) to the District as follows:

5.2.1 For a stationary source subject to Regulation 2.16 (Group 1 stationary source), the following:

5.2.1.1 The information listed in section 5.2.3 for the actual emissions by process or process equipment as follows:

5.2.1.1.1 Category 1 TACs 7-1-05 to 12-31-05 Due 4-15-06, and

5.2.1.1.2 Categories 1 and 2 TACs Calendar Year 2006 Due 4-15-07, and each year thereafter, and

5.2.1.2 The related stack and fugitive emission release parameters listed in section 5.3 as follows:

5.2.1.2.1 Category 1 TACs Due 2-28-06, and

5.2.1.2.2 Category 2 TACs Due 6-30-07,

5.2.2 For a stationary source that has applied for an operating permit pursuant to Regulation 2.17 or a stationary source that is described in section 4.1.2.2 (Group 2 stationary source), the following:

5.2.2.1 The information listed in section 5.2.3 for the actual emissions by process or process equipment as follows:

5.2.2.1.1 Category 1 TACs Calendar Year 2006 Due 4-15-07, and

5.2.2.1.2 Categories 1 and 2 TACs Calendar Year 2007 Due 4-15-08, and each year thereafter, and

5.2.2.2 The related stack and fugitive emission release parameters listed in section 5.3 as follows:

5.2.2.2.1 Category 1 TACs Due 6-30-07, and

5.2.2.2.2 Category 2 TACs Due 6-30-08, and

5.2.3 For each process, all of the following:

5.2.3.1 The operating schedule in hours per day, days per week, and weeks per year,

5.2.3.2 The chemical name for each listed TAC emitted,

5.2.3.3 The actual annual emission rate for each listed TAC, and

5.2.3.4 For the process emissions, the percentage of the overall process emissions that are stack, flare, fugitive, or area or pit.

5.3 The related stack and fugitive emission release parameters are as follows:

5.3.1 Plot plan, drawn to scale, showing all of the following:

5.3.1.1 Property line,

5.3.1.2 Fences,

5.3.1.3 Scale,

5.3.1.4 North arrow,

5.3.1.5 Buildings and other structures,

5.3.1.6 Height of buildings and other structures (if buildings have tiers, profile of building tiers),

- 5.3.1.7 Location of processes and process equipment,
- 5.3.1.8 Location of points of emission, and
- 5.3.1.9 UTM coordinates for corners of property, fences, buildings, and points of emission,
- 5.3.2 For each stack, all of the following:
  - 5.3.2.1 Stack height,
  - 5.3.2.2 Stack diameter (or dimensions if the stack is not round),
  - 5.3.2.3 Exhaust gas temperature at stack exit point,
  - 5.3.2.4 Exhaust gas exit velocity,
  - 5.3.2.5 Exhaust gas flow rate in ACFM, and
  - 5.3.2.6 A diagram of the stack discharge point if the exhaust gas is not discharged unobstructed vertically upwards,
- 5.3.3 For fugitive and area or pit emissions, all of the following:
  - 5.3.3.1 Dimensions of the point of release, and
  - 5.3.3.2 Height of the point of release, and
- 5.3.4 For flares, all of the following:
  - 5.3.4.1 Flare tip height,
  - 5.3.4.2 Maximum and average flare input gas stream volumetric flow rate, temperature, and net heat input,
  - 5.3.4.3 Identification of each component of the flare input gas stream,
  - 5.3.4.4 Volumetric fraction for each component of the flare input gas stream, and
  - 5.3.4.5 Flare stack diameter.
- 5.4 The related stack and fugitive emission release parameters required to be submitted pursuant to section 5.2 are required to be submitted only once unless there is an appreciable change in the information that has been submitted that would increase the maximum ambient concentration of a toxic air contaminant. The current actual annual emission rate of each listed toxic air contaminant is required to be submitted each year according to the schedule in section 5.2.
- 5.5 If the District determines that the concentration of a toxic air contaminant in the ambient air, resulting from the emission by a stationary source that is not required to submit the related stack and fugitive emission release parameters listed in section 5.3, may be greater than the level that would be considered environmentally acceptable pursuant to Regulation 5.21 *Environmental Acceptability for Toxic Air Contaminants* section 2.5.2 or 2.5.3, then the District may require the owner or operator to submit the applicable stack and fugitive emission release parameter information. In this case, the District shall provide written notice to the owner or operator, specifying the information required to be submitted and the applicable deadline.
- 5.6 If the District determines, based on ambient air monitoring or modeling of allowed emissions, that the concentration of a toxic air contaminant in the ambient air is greater than the level that would be considered environmentally acceptable pursuant to Regulation 5.21 section 2.8.1 or 2.8.2 and a potentially responsible entity for the emissions of the toxic air contaminant is identified, then the District may require the owner or operator of an identified stationary source to submit the information identified in sections 5.2 and 5.3 of this regulation. If the stationary source is already scheduled to submit the information identified in section 5.2 and 5.3, then the District may require the information to be submitted on an accelerated schedule. In either case, the District shall provide written notice to the owner or operator, specifying the required information to be submitted and the applicable deadline.

## **SECTION 6     Certification by a Responsible Official**

The information submitted to the District pursuant to this regulation shall contain a formal certification by a responsible official, as defined in Regulation 2.16 section 1.35 (excluding section 1.35.1.1), of the truth, accuracy, and completeness of the information. The certification required is as follows:

"Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete."

## **SECTION 7     Confidentiality and Open Records Requirements**

Nothing in this regulation is intended to preempt the confidentiality and open records provisions of Regulation 1.08 *Administrative Procedures*.

Adopted v1/4-19-72 effective 4-19-72; amended v2/9-1-76, v3/6-13-79, v4/12-17-86, v5/11-18-92, v6/12-15-93, v7/6-21-05 effective 7-1-05, v8/9-21-05.